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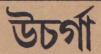
"CHECKLIST OF THE BIRDS OF ORANG WILD-LIFE SANCTUARY"

2nd edition, revised and updated with some additional information)

> B. N. Talukdar Pankaj Sharma







DR. PRAFULLA DUTTA GOSWAMI (1919-1994) First Assamese Birder

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The proceeds of sale of this booklet will go for the aid of Forest Guards of Orang (now Rajly Gandhi) WLS

right to marks

Human settlement always expands, this is a natural law. If such expansion is thwarted, then an immense pressure is generated. This pressure is experienced mainly in the fringes of wild-life protected areas. The authors of this booklet are villians — tough Forest Range Officers enforcing laws in such protected areas — laws that counter the natural law of expansion of human settlement.

The authors feel that the expansion of wild-life protected areas are the ideal counter to the natural expansion of human settlement. This seems an impossibility, as most of the protected wild-life areas are fragmanted islands amidst a mass of human settlements. But in Orang (Rajiv Gandhi Wild-Life Sanctuary) and Kaziranga National Park it is still possible to expand the sanctuary area. The stretch of the mighty Brahmaputra that forms part of the boundary of these two wild-life protected areas must be brought under wild-life management. This is what the authors feel. But who listens to Forest Range Officers, anyway?

In 1990, the authors Pankaj Sharma, and Bhupen N. Talukdar had published a check-list of the birds of the then Orang Wild-Life Sanctuary. The booklet was freely distributed among interested *birders* in Assam and the rest of the country. As the authors have only one copy of the booklet left between the two of them, they felt the need for an updated and enhanced reprint.

We hope that this booklet will make the people of Assam proud of *Orang* and also proud of these two Forest Range Officers for their efforts.

PUBLISHERS

ORANG WILD-LIFE SANCTUARY

Legal status : Game Reserve on 13-5-1915 (No.

2276/R) Wild-life Sanctuary on

20-9-85 (No. FRS 133/85/5)

Area of Sanctuary : As on 20-09-85 : 75.60 sq. km.

: As on 01-02-91: 78.81 sq. km.

Temperature : 7° to 32°

Avg. Annual Rainfall: 3000 mm

Humidity : 66% to 95%

Altitude : 40 to 70 metres above sea level

Type of Soil : Loamy, sandy loam and sandy

Perimetre : 48.80 miles

Jeepable roads : 21.5 km along the Northern and

Western boundary.

The sanctuary lies 18 km off the National Highway at Orang town and 15 km off the Highway at Dhansirimukh. The roads are negotiable but there are a few very weak bridges on the Orang town-Sanctuary stretch. So entry via Dhansirimukh is preferable. The distance from Guwahati to the Dhansirimukh-turning is 127 km (3 odd hours drive). Mangaldoi town falls on the way (70 km) and the Office of the DFO (Wild-Life Divn.) under whom the sanctuary falls is situated here. It takes two hours to reach Mangaldoi from Guwahati. For those travelling to Orang from Kaziranga the total distance is 157 km via Tezpur. Tezpur is 80 km away from the sanctuary and 62 km from Orang town.

It is preferable to visit Orang (Rajiv Gandhi Wild-life Sanctuary) with one's own vehicle because no vehicles are available for hire in the Range Office. Vehicles could be hired either in Guwahati, Tezpur, Mangaldoi, Dhekiajuli or Kaziranga.

Visitors from outside Assam can fly to Guwahati (daily flights from Calcutta and Delhi) and Tezpur (2 flights a week from Calcutta only). Distances from Guwahati airport 145 km. Distance from Tezpur airport 88 km.

For visit you may write to:

Divisional Forest Officer (Wild-life Divn.)
 Mangaldoi, Darrang, Assam

Pin: 784125

Phone: (03713) 2065

 Range Forest Officer, Rajiv Gandhi Wild-life Sanctuary, Orang
 P.O. Silbori, Darrang, Assam - 784114

Facilities for staying:

Rest House at Range Office, Silbori

Rest House at Sat Simalu (inside Sanctuary)

Both rest houses have 2 double-bedded rooms.

There is a dormitory in the Range Headquarters at Silbori. This consists of two big rooms. No restaurant facilities are availbale at the Rest House. But cooking can be done and guests must bring their own provisions.

Elephant safari is uncertain. But visitors can cover two/thirds of the sanctuary in Jeeps and cars. Visitors must bring their own vehicles.

Clothes to wear:

The minimum temperature recorded is 7° C warm clothes are recommended during mid November to mid March. However there is a chill in the air during March and April. Sanctuary closes in May.

ORANG

GENESIS OF THE SANCTUARY

Archaelogical remnants, in the form of medieval inscriptions on stone, give evidence of a Shiva temple proving existence of previous human settlement. Further evidence of former settlements are indicated by the 26 numbers of man-made water-tanks that have been systematically laid out in the sanctuary area. These are sure signs of existence of human settlement in medieval times.

1880-1900: Core areas of the sanctuary was inhabited.

The villages were abandoned due (perhaps) to the black-water fever epidemic.

1915: Declared Game Reserve. Area: 80.54 sq. km.

Nomenclature 'Orang' was derived from the nearest revenue village (now the town known as Orang)

Was a Beat Office under Majbat Range, Darrang Division, Tezpur.

1931 : In the northern part of sanctuary 17.29 sq. km. was dereserved for settling immigrants from Mymensingh district of erstwhile East Bengal (now Bangladesh) under what was known as the 'Grow More Food' scheme. (30th November 1931)

8.73 km of area to the east of Pachnoi river was annexed for plantation.

1931-1941: Under Taungya System Bors Working Plan, plantation was started (failed).

1942-1952: Softwood species plantation was taken up under Mr. Jacob's plan (Taungya System).

1952–1962: Softwood species plantation continued under Mr. M.M. Islam's plan.

- 1961 : Area was handed over to Afforestation, Mangaldoi Range (Hojai Afforestation Division) in order to continue planting softwood species extensively.
- 1972: Ban on hunting after 1972. On 1-11-1972 the area was handed over to the Wild-Life Wing and was included as an Auxillary Area for Project Tiger.
- 1985: 75.60 sq. km. was declared Wild-life Sanctuary on 20th September 1985. 1st Rhino census undertaken.
- 1990: Only Rhino Sanctuary to achieve zero-rhino poaching in a year.
- 1991 : On 1st February 1991 an area of 3.21 sq. km. was added on the Western side by evicting encroachers on khas (government) land. On 30th March, 2nd Rhino census undertaken.
- 1992: On 1st October 1992 the sanctuary was renamed Rajiv Gandhi Wild-life Sanctuary.

If those uninitiated to Assam's (Brahmaputra Valley) wilderness wishes to make a brief and rounded aquaintance of it, then the 70 odd sq. km. that comprise Orang is the recommended sample plot they should visit. For a newly recruited Indian forester interested in wild-life, Orang could well be a text book. The land use pattern ranges from grasslands, natural wooded patches, planted forests, river islands and swamp areas. Big game sighting especially rhinos and tigers can be made and birding in this sanctuary is immensely pleasurable.



CHECKLIST OF THE TREES IN ORANG WILD-LIFE SANCTUARY

Trees are listed in the following manner: Common English name and or local name/local name in Assamese script/scientific name/class of timber: A-I to IV, B,C.

PLANTED FOREST PATCH

- 1. Sisoo by Dalbergia Sisoo A-I
- 2. Silk Cotton Tree, Simolu, শিমলু Bombax ceiba A-IV
- 3. Queens Tree, Aajar, এজাৰ Lagerstroemia speciosa flos reginae A-III
- 4. Jia জীয়া Lannea grandis B
- 5. Poma পমা Toona ciliata
- 6. Bogipoma বগীপমা Chikrasia tabularis A-III
- 7. Khoir খয়েৰ Acacia Catechu A-I
- 8. Hollock শল্প Terminalia myriocarpa A-III
- 9. White Teak, Gamari, গমাৰি Gmelina arborea A-I
- 10. Khokan খোকন Daubhanga sonneratiodes A-III
- 11. Kadamba Tree, Kadam, কণম Anthrocephallus Kadamba A-IV
- 12. Koroi करें Albizzia procera A-III
- 13. Lali অমাৰি / লালি Amoora wallichaii A-III
- 14. Teak Segun চেঙন Tectona grandis A-I
- 15. Kuhir কুহিৰ Bridelia retusa A-III
- 16. Sal, Sal শাল Shorea robusta A-II

NATURAL FOREST PATCH

- 1. Silk Cotton Tree, Simolu শিমলু Bombax ceiba A-IV
- 2. Sissoo By Dalbergia sissoo A-I
- 3. Odal अमान Sterculia villosa B
- 4. Khoir बराब Acacia catechu A-I
- 5. Bhelkar ভেলকৰ Trewia nudiflora B
- 6. Bhelu ভেলেউ Tetrameles nudiflora A-IV
- 7. The Devil's Tree, Satiyana/Saitan চতিয়ানা/চইতান Alstonia scholaris A-IV
- 8. Indian Jujube Bogori বগৰি Ziziphus jujube
- 9. Som চোম Litsaea polyantha
- 10. Java Plum tree Jam জাম Sezizium spp
- 11. Carrya arborea
- 12. Machkoita মাচিকতা Calicarpa arborea
- 13. Queen's Tree Aajar এজাৰ Lagerstroemia speciosa A-III
- 14. Xaura সাওৰা Streblus asper
- 15. Delinia, Ou & Dillenia indica A-IV
- 16. Amra অমৰা Spondinis mangifera
- 17. The Indian Gooseberry Amlokhi আমলকি Amblica officinales
- 18. Small Fig Tree Dimoru ডিমৰু Ficus nemularis
- 19. Bhatgila ভাতগিলা Oroxylon indica
- 20. Kanchan काष्ट्रन Bauhina retusa
- 21. Jhau ঝাও Tamarix dioca



PROMINENT SPECIES OF GRASSES & PLANTS IN ORANG WLS

Non Aquatic Grass

Ekra ইকৰা Phragmites karka
Nal নল Arundo donax
Ulukher উল্বেৰ Imperata cylindrica
Khagori খাগৰী Saccharum spp.
Birina বিৰিণা E. ravannae
Borota Kher বৰতা খেৰ Saccharum elephantus
San Kher চন খেৰ Polivna ciliata
Dubori দুবৰী Cynodon dactylon

Kahuwa কহুয়া Saccharum spontenum

Locusa नेक्न H. compresa

Aquatic Grass/Plants

Dal দল Andropogon Spp
Kalmou কলমৌ Ipomea reptans
Helochi হেলটা Enhydra flushians
Barpuni বৰপুনি Pistia strafiotes
Sarupuni সৰুপুনি Lema paneicostata
Bhet ভেট Nymphia Spp.
Padum পদ্ম Nelumbo Spp.
Water Hyacinth মেতেকা Meteka Wichhornia
Species

LAND USE PATTERN

Type	Area	Percentage
Thatch area	9.85 sq. km.	18.8%
Thatch & Ekra	14.27 sq. km.	24.60 %
Ekra & Nal	12.33 sq. km.	16.30%
Sapori area (River island)	9.04 sq. km.	11.95%
Natural forest patch	1.98 sq. km.	2.60%
Planted forest patch	9.83 sq. km.	13.60%
Waterbodies/Swamps	9.53 sq. km.	12.60%

Today except for the Brahmaputra river which theoretically links up Orang with Burachapori and Kaziranga, the sanctuary is totally fragmented and is virtually an island amidst human settlement. Herds of elephants used to enter this area from Arunachal hills via Singri through Gasgarah Unclassed State Forest. Today Gasgarah USF is totally degraded and encroached. Hence no elephant herds are found in Orang. However the sanctuary has a rare distinction of harbouring six lone male wild elephants. These elephants are always a source of anxiety for visitors. Suprisingly Orang has no swamp deer. The swamp deer population was totally annihilated prior to 1972 when license for hunting prevailed. When burning operations were taken up annually (after 1972) bears were said to have fled away. Old records of existence of hispid hare exists but now it is not found. Pigmy Hog was introduced in Orang on 7-6-76 rather unsuccessfully.

Orang however has a very dense population of tiger (25 numbers in 70 sq. km). Second highest population of the great Indian one-horned rhino in the World (97 nos). Third highest concentration of the Bengal florican (45–60 nos) in the world.

CHECKLIST OF ANIMALS

Animals are listed according to the Schedule I, II, III and IV of the Wildlife (Protection) Act. 1972, in the following manner: Common English name, Assamese name in Assamese script, Assamese name in Roman script, scientific name, Red data Book category.

Schedule I

Asian or Indian Elephant হাতী Hati Elephas maximus VULNERABLE

Indian One horned rhinoceros গড় Garh Rhinoceros unicornis ENDANGERED

Indian Pangolin বনবৌ Bon Rau Manis crassicaudata
VIII.NERABI.E

Indian Rock Python অজগৰ Ajagar Python molurus bivittatus ENDANGERED

Tiger বাঘ Bagh Panthera tigris VULNERABLE

Schedule II

Bengal Porcupine কেতেলা পহ Ketla Phu Atherurus mecrourus assamensis

Common Fox শিয়াল Xial Vuleps Bengalensis Small Indian Civet জহামাল Viverricula indica Jungle Cat বন মেকুৰী Bon Mekuri Felis chaus King Cobra Ophiophagus hannah Otter উদ Ud Lutra perspicillata Rhesus Macaque মলুৱা বান্দৰ Macaca mullata

Schedule III

Hog Deer ভগৰী পছ Xagari Pahu Axis porcinus Wild Boar বনৰীয়া গাহৰি Bonoriya Gahori Sus Scrofa

Schedule IV

Blacknaped Hare Lepus nijecollis nigricollis
Rufous necked Hare Lepus nigricollis
Small India, Mongoose নেউৰ Naywol Herpeses
enwardis



- RESULTS OF RHINO CENSUSES

Date/Year	Adult		Sub-Adult		Calf				
	М	F	U/Sexed	М	F	Above 1Yr.	Below 1Yr.	Total	G/Tota
27-2-85	23	23	-	7	2	1	O	10	65
30-3-91	28	41	5	_	1	14	8	22	97

MORTALITY AMONG RHINOS:

(Total Rhino deads from 1983 to 1994.)

Year		Po	aching	Natural		
	Bullet	Pit	Poision	Total	Infighting	Iliness
1983	8	_	_	9	4	-
1984	3	2	1	6	1	-
1985	2	6	-	8	-	1
1986	1	2	-	3	-	-
1987	1	-	-	1	-	2
1988	1	2	1	4	-	-
1989	1	1		2	-	1
1990	_	-		Nii	-	_
1991	1	-		1	-	2
1992	1	1		2	3	-
1993	_	1		1	1	
1994	2	2		4	1 ,	_

Checklist of Turtles

EMYDIDAE

Malayan Box Turtle জাপদ্বা Jap Dura, Cuora amboinensis

Eastern Hill Terrapin/Tricarinate Hill Turtle प्रा Dura Melanochelys tricarinata Sch I

Spotted Black Terrapin/Spotted Pond turtle নৰ দ্বা Nal Dura Geoclemys hamiltoni Sch I VULNERABLE

Brown Roofed Turtle Kachuga smithi
Indian Roofed Turtle Kachuga tecta Sch I
Indian Tent Turtle Kachuga tentoria tentoria
(refered as Kachuga tecta tecta in Sch I)

TRIONYCHIDAE

Indian Soft Shelled Turtle Trionyx gangeticus (refered as Lissemys punctata in Sch I)
VULNERABLE

CHECKLIST OF BIRDS

(Updated from the booklet 'Checklist of the Birds for Orang Wild-life Sanctuary' B.N. Talukdar, P. Sharma, March 1991)

The birds in the following checklist has been arranged according to Family in the following manner: Serial number as in Ripley's 'Synopsis'/Common English name/in parenthesis names that have been modified (Pittie & Robertson June 1993)/local name in Assamese script and Roman script/scientific name/modifications kept in parenthesis (Pittie & Robertson)/Plate number as in 'Pictorial Guide to the Birds of Indian Sub-continent' Ali & Ripley/Status/Red Data Book Category.

PELECANIDAE

Pelicans

- 21. Spottedbilled Pelican চিকা ভেলা, শগুনা ভেলা Sika Bhella/Xaguna Bhella Pelecanus philippensis (3) RC
 - 20. Rosy/White Pelican পদ্ধ ভেলা Paddu Bhela P. onocrotalus (3) W?

PODICIPEDIDAE

Grebes

5. Dabchick/Little Grebe পানী ডুবি হাঁহ Panidubi Hahn *Tachybatus raficollis* (1) WC

PHALACROCORACIDAE

Cormorants & Darters

- 26. Great Cormorant বৰগোলা / বৈকলা Bargola/Doikola Phalacrocorax carbo (4) RC
- 27. Indian Shag (Indian Cormorant) কৈলাঙি Kailangi *P. fuscicollis* (4) RU
- 28. Little Cormorant পানী কাউৰী Pani Kauri P. niger
 (4) RC
- 29. Darter/Snake bird (Oriental Darter) বেজীয়া গোগ/মনিয়ৰি Bejiagog/ Maniyori Anhinga rufa (4) RC

ARDEIAE

Herons, Egrets & Bitterns

- 42. Pond Heron/Paddy Bird (Indian Pond Heron)
 কানী বগলা/কণা মুচৰি Kani Bogla/Kana musori
 Ardeola grayii (4) (7) RC
- 49. Little Egret ঠুতি বগ্লা Thuti bogla Egretta garzetta (4) (7) RC
- 47. Smaller Egret (Intermediate Egret) মাজ্ বগ্লা Maju bogla E. intermedia (7) RC
- 46. Large Egret (Great Egret) বৰ বগ/যাইঠা বগ্না Barbog/Jaitha Bogla Ardea alba (7) RC
- 44. Cattle Egret গোব্যা Gobogla Bubulcus ibis (7) RC
- 36. Grey Heron হালখেল/বিগা চেচা Halkheda/Boga sesa Ardea purpurea (6) RC
- 37. Purple Heron আজান Aajjan Ardea cinerea (6) RC
- 56. Chestnut Bittern (Cinnamon Bittern) ইটাভড়ি Itaguri Ixobrychus cinnamomeus (6) SU
- 58. Black Bittern নীল বগুলা Nilbogla Dupetor flavicollis (6) SU
- 52. Night Heron (Black Crowned Night Heron)

 বাতিচবা Ratisora Nycticorax nycticorax (4, 6)
 RU

CICONIIDAE

Storks

- 67. Greater Adjutant Stork বৰটোকোলা/বদং
 Bartokola/Dhodong Leptopilus dubius (8) RC
 Endangered
- 68. Lesser Adjutant Stork হাড়গিলা Hargilla

 L. javanicus (8) RC Endangered
- 66. Blacknecked Stork তেলীয়া সাবেং/ৰাই শান্ধা Telia Xareng/Rai Xalka Ephippiorhynchus asiaticus (8) RC

কনুৱা – কলি হাঁহ

- 62. Whitenecked Stork (Woolynecked Stork) কনুৱা Konua Ciconia episcopus (8) RU
- 61. Openbill Stork (Asian Openbill) শামুক ভঙা/শামুক খোলা Xamukbhanga/Xamuk-khula Anastomus oscitans (8) RU

ANATIDAE

Ducks, Geese & Swans

- 90. Ruddy Shelduck/Brahminy Duck ৰাম কং/চাকৈ চকোৱা Ramkong/Sakoi Sokuwa Tadorna ferruginea (11, 13) WC
- 100. Mallard তেল গাজ Telgaj Anas platyrhynchos (9, 10) WC
- 105. Shoveller (Northern Shoveller) খন্তি ঠুটীয়া/খাইটা হাঁহ Khanti Thutia/Khainta Hahn A. clypeata (9, 10) WC
 - 93. Pintail Duck (Northern Pintail) লেজাল হাঁহ Lezal Hahn A. acuta (9, 10) WC
- 94. Common Teal/Green winged Teal বিটা হাঁহ/চক বিটা হাঁহ Bitla Hahn/Sak Bitla Hahn A. crecca (9, 10) WC
- 89. Large Whistling Teal (Fulvous Whistling Teal) গোধা শাল্লি Godha Xalli *Dendrocygna bicolor* (11, 13) Vulnerable
- 88. Lesser Whistling Teal/Lesser Tree Duck পাউতা শাল্লি Pauta Xalli *Dendrocyghna javanica* (11, 13) RC
- 97. Spotbill Duck/Grey Duck (Spotbilled Duck) খাদা হাঁহ/কৈঠা খুন্দা Khada Hahn/Koitha Khunda Anas poecilorhyncha (9, 10) WC
- 109. White-eyed Pochard/Ferruginous Duck (Ferrugenious Pochard) কলি হাঁহ Kolee Hahn Aythya fulignla (11, 13) WC

- 108. Common Pochard গোধাকলী হাঁহ Godhakoli Hahn A. ferina (11, 13) WC
- 103. Wigeon (Eurasian Wigeon) পেৰী হাঁহ Kheri Hahn Anas penelope (9, 10) WC
- 101. Gadwall মুগী হাঁহ Mugi Hahn A. strepera (9, 10) WC
- 104. Garganey বগা কাঁচি Boga kasi A. querquedula (9, 10) WC
- 111. Tufted Duck/Tufted Pochard বামুণী হাঁহ/টিকনি হাঁহ Bamuni Hahn/Tikoni Hahn Aythya fuligula WC
- 102. Falcated Teal Anas Falcata WU
- 114. Cotton Teal/Indian Cotton Teal/Quacky Duck (Cotton Pigmy Goose) নাক খেচখেচী/ঘিলা হাঁহ Nak-khesh-khesi/Ghila Hahn Netapus coromandelianus (11, 13) WU
 - 82. Bar-headed Goose ধিতৰাজ/দুবৰিচিঙা হাঁহ Dhitaraj/ Dubori Singa Hahn Anser indicus (12)W?
 - 81. Greylag Goose ৰাজহাঁহ Rajhahn Anser anser (12) WC

ACCIPITRIDE

Hawks, Vultures etc.

- 178. King Vulture (Redheaded Vulture) ৰজা শগুন/তামূলি শগুন Raja Xagun/Tamuli Xagun Sarcogyps calvus (16, 17, 18) R?
- 185. Bengal Vulture/Whitebacked Vulture (Whiterumped Vulture) শগুন Xagun Gyps bengalensis (16, 17, 18)) RC
- 133. Pariah Kite (Black Kite) চিলনী/মাইতা চিলা Silani/Maita Sila *Milvus migrans govinda* (14, 15, 17) RC
- 135. Brahminy Kite গোধা চিলনী Godha Silani Haliastur indus (14, 17, 25) RC

কুৰুৱা — ভাউক

- 174. Pallas's Fishing Eagle/Ringtailed Fishing Eagle (Pallas's Sea Eagle) কুৰা/কুৰুৱা Kura/Kuruwa Haliaeetus leucoryphus (14, 15) RC
- 192. Pied Harrier পথৰা শেল Pokhra Xan Circus melanoleucus (14, 19) W
- 193. Marsh Harrier ডোবা শেন Duba Xan C. aeruginosus (14, 19) RC
- 130. Honey Buzzard (Oriental Honey Buzzard) মৌসাপ Mou-khap *Pernis pttorhyncus* (24, 25) RC
- 196. Crested Serpent Eagle সাপকটা Sapkata Spilornis Cheela (20, 21, 28) RC
- 175. Greyheaded Fishing Eagle (Greyheaded Fish Eagle) বৰ-কুৰা Bar-kura Ichthyophaga ichthyaetus (14, 15) RC
- 148. Sparrow-Hawk (Eurasian Sparrowhawk) বাজ Baj Accipter nisusmelaschictos (22, 23) RC
- 203. Osprey চিলকুৰুৱা, শালখোৱা Pandion haliaetus (14, 21) RU Vulnerable

PHASIANIDAE

Pheasants/Partridges & Quails

247. Swamp Partridge (Swamp Francolin)
কৈৰা/হয়কলি Koira/Haikoli Francolinus gularis
(31) RC

RALLIDAE

Rails, Coots

- 350. Coot নলঢেকৰ/বিলাতী ঢেকৰ Naldhekar/Bilati Dhekar Fulica atra (36) WU
- 327. Water Rail Rallus aquaticus (36) WU
- 343. Whitebreasted Water Hen ডাউক Dauk
 Amaumis phoenicurus (36) RC

- 346. Water Cock কৰা Kora Gallicrex cinerea (36) RU
- 247. Moorhen/Indian Moorhen (Common Moorhen) ােকৰ Dhekar Gallinula Chloropus (36) RC
- 349. Purple Moorhen (Purple Swamp hen) কায়েম/কাম- চৰাই Kayem/Kam Sorai Porphyrio porphyrio (36) RC

OTTDIDAE

Bustards

256. Bengal Florican উলু মৈৰা/উলু ম'ৰা Ulumoira/Ulumora Eupodotis bangalensis (37) RU Endangered

JACANIDAE

Jacanas

- 259. Bronzewinged Jacana দলপুঙা/কাইঠাৰা Dalpunga/Kaithara Metopidus indicus (36) RC
- 258. Pheasant-tailed Jacana দলমৈৰা/দলম'ৰা, মেওঁৱা
 Dalmoira/Dalmora, Meuwa Hydrophoasianus
 chirurgus (36)?

BURHINDIAE Stone Curlews, Thick Knees

436. Stone Curlew (Eurasian Thick-knee) Burhinus oedicnemus (39, 42) WO

CHARADRIIDAE

Plovers

- 366. Red-wattled Lapwing বালিঘোঁৰা/টিটিহোত Balighora/Hotitihot/Titihot Vanellus indicus indicus (38, 39) RC
- 370. Yellow-wattled Lapwing Vanellus malabaricus (38)?

काँ ियान - गना िननी

- 364. Lapwing/Northern Lapwing V. vanellus (38, 39) WU
- 369. Spurwinged Lapwing (River Lapwing) केंकियनि Kosioli V. duvaucelii WU
- 365. Greyheaded Lapwing ৰূপাল ফটলা Kopal Fatla V. cinereus (38, 39) WC
- 380. Little Ringed Plover *Charadrius dubius* (40,41) WU
- 381. Kentish Plover C. alexandrinus (40,41) WU

SCOLOPACIDAE

Sandpipers

- 401. Common Sandpiper বৰচিনেক, জিপ Bareneks Jeep Tringa stagnatites (43, 44) WC
- 395. Marsh Sandpiper জিপ Jeep T. stagnatitis (43) WC
- 398. Wood Sandpiper T. glareola (43, 44) WA
- 416. Little Stint Calidris minuta (40, 41) WC
- 393. Red Shank (Common Redshank) *Tringa totanus* (43, 44)
- 396. Green Shank (Common Greenshank) T. nebularis (43, 44)

LARIDAE

Gulls, Terns

- 454. Brownheaded Gull ৰাম পাৰ Ram Paro Larus brunnicephalus (45) WC
- 463. Indian River Tern (River Tern) গঙ্গা চিলনী Ganga Silani Sterna aurantia (46) WC

RECURVIROSTRADAE

Stilts & Avocets

432. Avocet (Pied Avocet) Recurvirostra avosetta (39, 42) WO

COLUMBIDAE

Pigeons, Doves

- 503. Common Green Pigeon (Yellow footed green Pigeon) হাইঠা/হাইতাল Haitha/Haittal Treron phoenicoptera (49) RC
- 542. Emerald/Bronzewinged Dove নীল কণ্ডি Nil Kopti *Chalcophaps indica* (49) RC
- 537. Spotted Dove পাইতা কণ্ডি, ফুটুকী কপৌ Paita Kopti, Futuki Kapau, *Streptopelia chinensis* (49) RC
- 534. Collared Turtle/Indian Ring Dove (Eurasian Collared Dove) হাউৰা কণ্ডি Haura Kapti S. deeaocto (49) RC
- 535. Red Turtle Dove (Red Collared Dove) শিল কণ্ডি Xil Kapti S. trangnebarica (49) RC
- 541. Little Brown/Senegal Dove (Laughing Dove) ৰাম কপ্তি Ram Kapti S. senegaleusis (49) RO

PSITTACIDAE

Parrots

550. Rose ringed Parakeet টিমা Tiya Psittacula krameri (50) RC

CUCULIDAE

- 573. Common Hawkuckoo/Brainfever Bird বৌ কাকা ক'ত Bou-kaka-kot/Keteki *Cuculus varius* (51) RU
- 590. Koel (Asian Koel) কুলি Kuli Eudynamys Scolopacea (71) RC
- 600. Crow Pheasant/Coucal (Greater Coucal) বহ কুকু/কুকুহা Bah Kuka/Kukuha *Centropus* sinensis (52) RC
- 595. Little Greenbilled Malkoha (Bluefaced Malkoha) *Rhopodytes tristis* (52)

STRIGIDAE

Owls

STRIGINAE

True Owls

- 652. Spotted Owlet কাল ফেঁচা/নিয়তি Kal Fesa/Niyoti

 Athene brana (54) RC
- 636. Jungle Owlet ফেঁচা Fesa Glaucidium radiatum (54) RU
- 427. Eagle Owl/Great Horned Owl (Rock-eagle Owl) 형 Hudu Bubo bubo (53) RC

TYTONINAE

Barn Owls

606. Barn Owl লকী ফেঁচা Lakhi Fesa Tyto alba (54) RC

CAPRIMULGIDAE

Nightjars, Goat Suckers

680. Common Indian Nightjar (Indian Nightjar)
দিনকণা Dinkona Caprimulgus asiaticus (55) RC

APODIDAE

Swifts

707. Palm Swift (Asian Palm Swift) বতাহী Batahi

Cypsium parvus (Cypsiums balasiensis) (56)

RC

ALCEDINIDAE

Kingfishers

- 717. Himalayan Pied Kingfisher (Crested Kingfisher) বৰ মাছৰোকা Bar Masroka Ceryle lugubris (Megacenle lugubris) (58) RU
- 719. Lesser Pied Kingfisher (Pied kingfisher) মাছৰোকা Masroka C. rudis (58) RC
- 722. Small Blue/Common Kingfisher টিপটি হন্মান Tipsi Hanuman Alcedo atthis (58) RC

- 721. Great Blue/Blyth's Kingfisher মাজু হনুমান Maju Hanuman Alcedo hercules (58) RU
- 730. Storkbilled Kingfisher/Brownheaded Storkbilled Kingfisher বৰ হনুমান Bar Hanuman Pelargopsis capensis (58) RO
- 735. Whitebreasted Kingfisher (White-throated kingfisher) হন্মান Hanuman Halcyon smyrnesis (58) RC

UPUPIDAE

Hoopoe

763. Hoopoe (Eurasian Hoopoe) যণি কতৰা/গোবৰ খোঁচৰা Phanikatara/Gobar Khosora *Upupa* epops (58) RC

CORACIIDAE

Rollers

755. Indian Roller/Blue Jay সেৎ কাউৰ/কাওচা Xet Kaur/Kausa Coracias bengalensis (57) RC

MEROPIDAE

Bee-eaters

- 750. (Green Bee-eater) Little Green Bee-eater মৌ ঝোৱা Mou Khowa *Merops orientalis* (58) RC
- 748. Bluetailed Bee-eater জিয়াঁখাতী Jia Khaty M. philippinus (57) RC
- 744. Chestnuttheaded Bee-eater উই ভূৰুকা Ui Bhuruka M. leschenaultii (57) RC

MEGALAIMIDAE

Asian Barbets

778. Himalayan Barbet (Great Hill Barbet) (Great Barbet) যম ডাকিনী Jom dakinee Megalaima virens (60)?

হেটুলুকা — সখিয়তি

- 782. Green Barbet (Brownheaded Barbet) হেটুলুকা Hetuluka M. zeylanica (60) RC
- 788. Bluethroated Barbet M. asiatica (60) RC
- 792. Coppersmith/Crimsonbreasted Barbet (Copersmith Barbet) তগৰ Tagar M. haemacephala (60) RC

PICIDAE

Woodpeckers

- 819. Lesser Goldenbacked Woodpecker কাঠখোলা/বাঢ়ৈটোকা Kathkhula/Barhoitoka Dinopium benghalense (60) RC
- 847. Mahratta Woopecker/Yellowfronted Pied Woodpecker((Yellowcrowned Woodpecker) ফুইতা কাঠখোলা Fuita Kathkhula *Dendrocopos mahrattensis* (61) RC

HIRUNDINIDAE

Swallows

- 923. Striated Swallow (Redrumped Swallow) তেলটুপি Teltupi *Hirundo daurica* (65) RC
- 916. Common Swallow (Barn Swallow) তেলটুপি Teltupi *Hirundo rustica* (58) RC

CANIIDAE

Shrike

- 946. Rufous backed Shrike (Longtailed Shrike)

 Lanius schach (94) RC
- 949. Brown Shrike L. cristatus (94) RC

ORIOLIDAE

Orioles

958. Blackheaded Oriole (Blackhooded Oriole) পাটমানৈ/স্থিমতি Patmadoi/Xakhioti *Oriolus* xanthornus (63) RC

DICRURIDAE

Drongos

- 963. Black-Drongo/King Crow ফো/ফেই Fesu/Fehu
 Dicrurus adsimilis (Dicrurus macrocercus)
 (69) RC
- 970. Crowbilled Drongo D. annectans (69) RC
- 971. Bronzed Drongo भीशा टक्क् Matia Fesu D. aeneus (69) RC
- 973. Haircrested Drongo/Spangled Drongo বাবৰি ফেচু/টিক্কি ফেচু Babri/Tikki Fesu *Dicrurus* hottentottus (69) RC
- 977. Greater Racket-tailed Drongo ভীমৰাজ Bhimraj
 D. paradiseus (69) RU
- 972. Lesser Racket-tailed Drongo D. remifer (69)
- 967. Whitebellied Drongo D. caerulescens (69) RU

ARTAMIDAE

Swallow-shrike

982. Ashy Swallow-Shrike (Ashy Wood Swallow) আম চোকা Am Choka Artamus fuscus (65) RC

STURNIDAE

Starlings, Mynas

- 1006. Common Myna/Indian Myna শালিকা/শালকা Ghar Xalika/Xalka Acridotheres tristis (96) RC
- 1002. Pied-Myna (Asian Pied Starling) গৰিয়া শালকা/কান কুইল্লা Goira Xalka/Kankuilla Sturnus contra (96) RC
- 1008. Bank Myna গাত শালকা/মাটি শালিকা Gat Xalka/Mati Xalika Acridotheres ginginianus (%) RU

কাঠ শালিকা – বৰ ৰূপহী

- 987. Greyheaded Myna (Chestnut-tailed Starling) কাঠ শালিকা Kath Xalika Sturnus malabaricus (96) RC
- 1009. Jungle Myna মাকু শালিকা/চৃতিয়া শালিকা Maku Salka/Suita Salka Acridotheres fuscus (96) RC
- 994. Brahminy Myna/Blackheaded Myna (Brahminy Starling) বাপু শালিকা Bapu Xalika Sturnus pagodarum (96) RU
- 1015. Hill Myna/Grackle Myna মইনা Moina Gracula religiosa (96) O

CORVIDAE

Crows & Magpies

- 1032. Indian Tree Pie (Rufous Treepie) কেক্টেকী Sek cheika *Dendrocitta vagabunda* (70) RC
- 1049. House Crow কাউৰ/পাতিকাউৰ Kaur/Patikaur Corvus splendens (71) RC
- 1054. Jungle Crow (Largebilled Crow) ধ্ৰা কাউৰ Dhura Kaur Corvus macrorhynchos (71) RC

CAMPEPHAGIDAE

Cuckoos Shrikes & Minivets

- 1070. Common Wood Shrike শালিকা/শালকা
 Xalika/Xalka Tephrodornis pondicerianus
 (66) RC
- 1093. Small Minivet ৰূপই Rupahi Pericrocotus cinnamomeus (66) RU
- 1081. Scarlet Minivet বৰ ৰুপাই Bor Rupahi P. flammeus (66) RU

IRENIDAE

Fairy Bluebirds, loras & Leaf Birds

1108. Jerdons Leaf bird/Goldimantled Leaf bird (Bluewinged Leafbird) *Chloropsis* cochinchinensis (67) RC

- 1103. Goldfronted Leafbird/Green Bubul
 (Goldenfronted Leafbird) C. aurifronts (67)
 RC
- 1098. Common lora নিথৌ/কৃষ্ণ Nee-tho/Kri-shna Aegithina tiphia (67) RC

PYCONOTIDAE

Bulbuls

- 1128. Redvented Bulbul কটিৰঙা / বুলবুলি
 Katiranga/Bulbuli *Pycnonotus cafer* (67) RC
- 1120. Redwhiskered Bulbul গালৰঙা বুলবুল Galranga Bulbul *P. jocosus* (67) RC
- 1125. Whitecheeked Bulbul (Himalayan Bulbul) P. leucogenys (67)?
- 1148. Black Bulbul Hypsipetes madagascariensis (67)

MUSCICAPIDAE

Babblers, Flycatchers Warblers, Thrushes & Chats

- 1390. Quaker Babbler (Browncheeked Fulvetta)

 Alcippe poioicephala (79)
- 1259. Rufous bellied Babbler (Rufous Babbler)

 Dumetia hyperythra (74)
- 1265. Jungle Babbler সাতভামা Xatbhaiya *Turdoides* striatus (79)
- 1154. Spotted Babbler (Puffthroated Babbler)

 *Pellorneum ruficeps (75) RC
- 1231. Yelloweyed Babbler *Chrysomma sinense* (79)
 - 1274. Whitethroated Laughing-Thrush Garrulax albogularis (77) RU

দহিকতৰা – গোবৰধুপনী

TURDINAE

- 1661. Magpie-Robin/Dhyal Thrush (Oriental Magpie Robin) দেওঁকতৰা/দহিকতৰা Dekotra/Dohikatora Copsychus saularis (83) RC
- 1697. Collared Bush Chat/Stone Chat (Common Stonechat) Saxicola torquata (84) RC
- 1672. Black Redstart (82) Phoenicurusochruros
- 1527. Brown Hill Warbler (Striated Prinia) Prinia criniger (89) RU
- 1665. Shama (Whiterumped Shama) Copsychus malabaricus (83)
- 1536. Tailor Bird পাতসিয়া / টিপটিপেলি Patxia/Tip-tipeli
 Orthotomus sutorius RC

MUSCICAPINAE

- 1617. Greyheaded Flycatcher Culicicapa ceylonensis (92) WC
- 1411. Redbreasted Flycatcher Muscicapa parva (Ficedula parva) (92) WC

PARIDAE

Tits or Titmice

1617. Grey Tit जनाबकनि Bhadarkoli Parus major (72) RC

PASSERIDAE

Pipits & Wagtails

- 1858. Indian Pipit/Paddyfield Pipit Anthus novaeseelandica (Anthus rufulus) (72) WC
- 1883. Yellowheaded Wagtail (Yellowheaded Wagtail) Motacilla citreola (95) WC
- 1891. Large Pied Wagtail (Whitebrowed Wagtail) গোবৰধূপনী Gobardhupni *M. maderaspatensis* (95) WC

- 1885. White Wagtail/Pied Wagtail বালিমাহী/ধ্বনী চকা Balimahi/Dhubuni Choka *M. alba* (95) WC
- 1876. Yellow Wagtail বৰিয়লী Motacilla flava (95) WC
- 1884. Grey Wagtail M. cinerea (95) WV

NECTARINIIDAE

Sunbirds & Spiderhunters

- 1917. Purple Sunbird মৌপিয়া Moupiya Nectarinaasiatica (97) RC
- 1908. Purple-rumped Sunbird N. zeylonica (97) RC
- 1927. Yellow-backed Sunbird (Crimson Sunbird)

 Aethopyaga siparaja (97) RC

PLOCEIDAE Weaver Birds

- 1938. House Sparrow চ'কা/ঘৰচ'কা/ঘৰচিৰিকা Soka/Gharsaka/Ghansirika Passer domesticus (99) RC
- 1974. Nutmeg Mannikin, Spotted Munia (Scaly breasted Munia) ফুইতা টুনী Fuita Tuni Lonchura punctulata (98) RC
- 1978. Blackheaded Munia টুনী Tuni Lonchura malacca (98) RC
- 1964. Red Munia or Avanavat (Red Avadavat) ৰঙা টুনী Ranga Tuni Estrilda amandava (98) RC
- 1957. Baya (Baya Weaver) বুলচ কা / টোকোৰা Boonsoka/Tokora Ploceus philipinus (99) RC
- 1949. Yellow throated Sparrow
 · (Chestnutshouldered Petromia) ব্নচ'কা
 Boonsoka Petronia xanthocollis (99) RC

ADDENDA

EMBERIZIDAE

Buntings

2044. Redheaded Bunting Emberiza-bruniceps (103)

ADDENDA

- 38. Little Green Heron Butorides striatus
- 160. Changeable Hawk-Eagle Spizaetus cirrhatus
- 163. Booted Hawk-Eagle Hieraaetus pennatus
- 139. Black Partridge Francolinus francolinus
- 316. Northern Bustard-Quail (Lao Bota) Turnix suscicator
- 368. Burmese Redwattled Lapwing (Balighura)

 Vanellus indicus atronuchalis
- 532. Rufous Turtle-Dove (Bor Kopou) Streptopelia orientalis
- 545. Alexandrine Parakeet (Tiya) Psittacula eupatria
- 551. Redbreasted Parakeet (Pura Bhatou) Psittacula alexandri
- 557. Blossomheaded Parakeet (Xenduri Tiya)

 Psittacula cyanocephala
- 576. Indian Cuckoo (Keteki) Cuculus micropterus
- 605. Lesser Coucal (Kuli Kukuha) Centropus toulou
- 594. Large Greenbilled Malkoha (Bamura) Rhopodytes tristis
- 641. Barred Owlet (Phesa) Glaucidium cuculoides
- 630. Dusky Horned Owl Bubo coromandus
- 753. Bluebearded Bee-eater Nyctyornis arthertoni
- 784. Lineated Barbet (Bor Hetuluka) Medgalaima lineata
- 845. Fulvousbreasted Pied Woodpecker Picoides macei
- 873. Bush Lark Mirafra assamica
- 907. Eastern Small Skylark (Bota Sorai) Alauda gulgula
- 912. Plain Sand Martin (Satok) Riparia paludicola

ADDENDA & Further Information

- 911. Collared Sand Martin (Satok) Riparia riparia
- 918. Tytler's or Chestnutbellied Swallow Hirundo rustica tytleri
- 945. Greybacked Shrike (Era Sorai) Lanius tephronotus
- 1072. Large Cuckoo-shrike (Elehua Sorai) Coracina novaehollandiae
- 1256. Striated Babbler Turdoides earlei
- 1498. Streaked Fantail Warbler Cisticola juncidis
- 1534. Large Grass Warbler Grammnicola bengalensis
- 1516. Ashy Wren-warbler Prinia socialis
- 1502. Franklin's Wren-warbler Prinia hodgsonii
- 1512. Plain Wren-warbler Prinia subflava
- 1506. Rufousfronted Wren-warbler Prinia bucchnani
- 1525. Yellowbellied Wren-warbler Prinia flaviventris
- 1906. Rubycheek Anthreptes singalensis
- 1960. a. Finn's Baya Ploceus megarhynchos
- 1961. Blackthroated Weaver Ploceus benghalensis
- 1938. House Sparrow (Ghorsirika) Passer domesticus
- 1942. Tree Sparrow (Bonsirika) Passer montanus

The above addenda is based on sightings made between 17th–19th May 1995 by V_{ξ} Menon, Sujan Chatterjee & Maan Barua.

FURTHER INFORMATION

The following list informs of those Birds spotted by Manideep Raj and not recorded in the above checklist and addenda. Survey was made by Raj during 1988 & 1989. (See 'Birding in Orang Wildlife Sanctuary (OWLS)' Manideep Raj, Journal of the Ecological Society Vol. 6 Pg. 41–46 P. Gole ed. Pune).

- 65. Black Stork (Kal Xor') Ciconia nigra R,O
- 110. Baer's Pochard Aytha baeri M,O
- 189. Hen Harrier Circus cyaneus Un,O

Further Information/Names of Water bodies

- 140. Shikra (Xen) Accipiter badius Un,O
- 182. Longbilled vulture (Xogoon) Gyps indicus R,C
- 404. Solitary Snipe (Screka Sorai) Gallinago solitaria LM.C
- 585. Rufousbellied Plaintive Cuckoo Cacomantis merulinus R.C
- 631. Brown Fish Owl (Hudu) Bubo zeylonensis R,O
- 706. House Swift (Teltupi) Apus affinis R,A
- 789. Blue-eared Barbet Megalaima australis R,O

Names of *Beels* and Waterbodies in Orang Wild-life Sanctuary

(See Map overleaf)

- 1. Rowmari beel
- 2. Khalihamari beel
- 3. Siloni beel
- 4. Thotasimolu
- 5. Saila
- 6. Diaheli
- 7. Satsimolu beel

- 8. Sewaratoli
- 9. Tinkuna
- 10. Bagurmari
- 11. Pachnoi-mukh
- 12. Borbeel

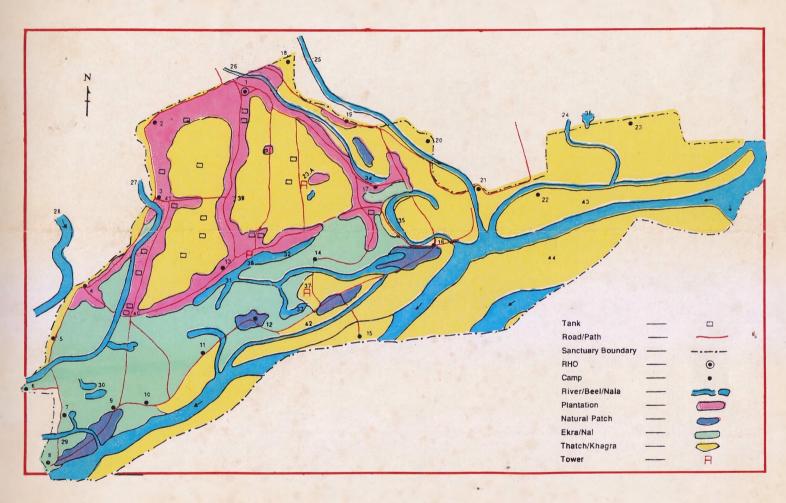
Channels of Brahmaputra &

26 nos of ponds

HERONRY

- Heron City so named because it is the breeding site
 of birds of the Ardeidae and Phalacrocoracidae
 families. Breeding takes place between the months of
 May to July. More than 12 species of these two
 families identified. Population around 4000.
- Bhela-jar breeding site of spotbilled Pelicans and Adjutant storks.

ORANG WL. SANCTUARY (NOT TO SCALE)



1. RANGE H.Q. 6 CHANDANPUR BEJIMARI 3. RANGAGARAH 4. OLD ORANG 5. KACHAMARI 7 KATASALI 8. HAZARBIGHA GASPARA BARKHETAPU 11. TINCHONA 12. BANTAPU 13. SATSIMOLU 14. AMULYA 16. NICHOLAMARI RAMKONG ROUMARI PACHNOI HALF 19. PACHNOI-I 20. PACHNOI-II 21. PACHNOI-III 22. RAMDAS 23. BELSIRI 23.A MAGURMARI TOWER 25. PACHNOI RIVER BELSIRI RIVER 26. GHAGRA NALA 27. MORA DHANSIRI RIV 28. DHANSIRI RIV 29. KATASALI BEEL 30. GAIMARI B SEURATOLI BEEL 32. SATSIMOLU BEEL 34. ROUMARI BEEL 37. SARU TOWER 33. CHAILA BEEL 35. OOGLI BEEL 36. GHITTING BEEL 38. SATSIMOLU TOWER 39. BHELAJHAR 41. RAHMANPUR 40. SINGBHETI 42. DIGHELI BEEL 43. RAMDAS TAPU PANCHU TAPU

APPENDICES - I & II

APPENDIX - I

RFD DATA BOOK CATEGORIES

EXTINCT (Ex)

A taxon is Extinct when there is no reasonable doubt that the last individual has died.

CRITICAL (CR)

A taxon is Critical when it is facing an extremely high probability of extinction in the wild in the immediate future. A taxon is defined as Critical by any of the following criteria (A to E).

- A. Population estimated to number less than 50 mature individuals.
- B. Population estimated to number less than 250 mature individuals and to have both of the following characteristics.
 - Population structure in the form of either of the following:
 - severely fragmented i.e. no sub-population is known or estimated to contain more than 50 mature individuals,
 - (b) found only at a single location.
 - Continuing decline, observed, inferred or projected in either of the following (a) number of mature individuals (b) area, extent, and/or quality of habitat.
- C. Geographic extent estimated to be less than 100 km² or range area estimated to be less than 10 km² and estimates indicating any two of the following:
 - 1. Severely fragmented or found only at a single location.
 - Continuing decline, observed, inferred or projected, in any of the following:
 - (a) geographic extent; (b) range area; (c) number of locations.
- D. Decline in population in the form of either of the following:
 - An observed precipitous and continuing decline in the number of mature individuals (typical more than 25% per year over 5 years).

- A continuing decline as specified in D1 inferred or projected from any of the following (a) a decline in area, extent and/or quality of habitat, (b) levels of exploitation; (c) the effects of introduced species, pathogens, competitors, or parasites.
- E. Quantitative analysis showing the probability of extinction in the wild is at least 50% within 5 years or 2 generations, whichever is longer.

ENDANGERED (EN)

A taxon is Endangered when it is not Critical but is facing a very high probability of extinction in the wild in the near future. A taxon is defined as Endangered by any of the following criteria (A to E)

- Population estimated to number less than 250 mature individuals.
- B. Population estimated to number less than 2,500 mature individuals and to have both of the following characteristics.
 - 1. Population structure in the form of either of the following:
 - (a) severely fragmented i.e. no sub-population is known or estimated to contain more than 250 mature individuals; (b) found only at a single location.
 - Continuing decline, observed, inferred or projected, in either of the following:
 - (a) number of mature individuals;
 (b) area, extent, and/or quality of habitat.
- C. Geographic extent extimated to be less than 5,000 km² or range area estimated to be less than 500 km² and estimates indicating any two of the following:
 - Severely fragmented or found only at no more than two locations.
 - 2. Continuing decline, inferred, observed or projected, in any of the following:
 - (a) geographic extent; (b) range area; (c) area, extent, and/or quality of habitat; (d) number of locations; (e) number of mature individuals.
 - Extreme fluctuations in any of the following :
 (a) geographic extent; (b) range area; (c) number of location.

- D. Decline in population in the form of either of the following:
 - An observed marked and continuing decline in the number of mature individuals (typically more than 50% in total within 5 years or 2 generations, whichever is longer).
 - A continuing decline as specified in D1 inferred or projected from any of the following:
 - (a) a decline in area, extent and/or quality of habitat;
 - (b) levels of exploitation; (c) the effects of introduced species, pathogens, competitors or parasites.
- E. Quantitative analysis showing the probability of extinction in the wild is at least 20% within 20 years or 5 generations whichever is longer.

VULNERABLE (VU)

A taxon is Vulnerable when it is not Critical or Endagered but is facing a high probability of extinction in the wild in the medium-term future. The taxon is defined as Vulnerable by any of the following criteria (A to E).

- PopUlation estimated to number less than 1,000 mature individuals.
- B. Population estimated to number less than 10,000 mature individuals and to have both of the following characteristics.
 - Population structure in the form of either of the following: (a) severely fragmented i.e. no sub-population is known or estimated to contain more than 1000 mature individuals (b) found only at a single location.
 - Continuing decline, observed, inferred or projected, in either of the following (a) number of mature individuals (b) area, extent and/or quality of habitat.
- C. Geographic extent estimated to be less than 20,000 km² or range area estimated to be less than 2,000 km² and estimates indicating any two of the following:
 - Severely fragmented or found at no more than five locations.
 - Continuing decline, inferred, observed or projected, in any of the following:
 - (a) geographic extent; (b) range area; (c) area, extent,

APPENDIX - II

39. Greycrowned Prinia Prinia cinereocapilla

40. Bristled Grass-warbler Chaetomis striatus

41. Beautiful Nuthatch Sitta formosa

42. Jerdon's Babbler Chrysomma altirostre

43. Brown capped Laughing-Thrush Garrulax austeni

44. Black-browed Parrot-bill Paradoxornis

atrosuperciliaris

45. Rufous-vented Prinia Prinia burnesii

ADDITIONAL SPECIES

1. Blacknecked Stork Ephippiorhynchus

2. Black Stork Ciconia nigra

3. Large whistling Teal Dendrocygna bicolor

4. Oriental Hobby Falco veverus

5. Blackcrested Baza Aviceda jerdoni

6. Lesser Spotted Eagle Aquila pomarina

7. Ibisbill Ibidorhyncha struthersii

D.L...I. sture

8. Peacock Pheasant Polyplectron

bicalcaratum

9. Bay Owl Phodilus badius

10. Brown Needle Tail (Brown-backed Needle Tail ?) Hirundapus giganteus(?)

11. Rufous necked Laughing Thrush

Garrulax cinereifrons •

Found in Orang WLS
 Informations on the above mentioned birds may kindly be sent to:

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